

Linking city heritage collections by implementing Flemish OSLO standards

*KBR - Linked Data and International Standards for Cultural
Heritage (13 September 2022)*

**Olivier Van D'huynslager (Design Museum Gent)
Annelies Valgaeren (Musea stad Antwerpen)**

***Collections of Ghent, a participatory platform
to publish Linked Data Event Streams of
heritage organizations of the city of Ghent***

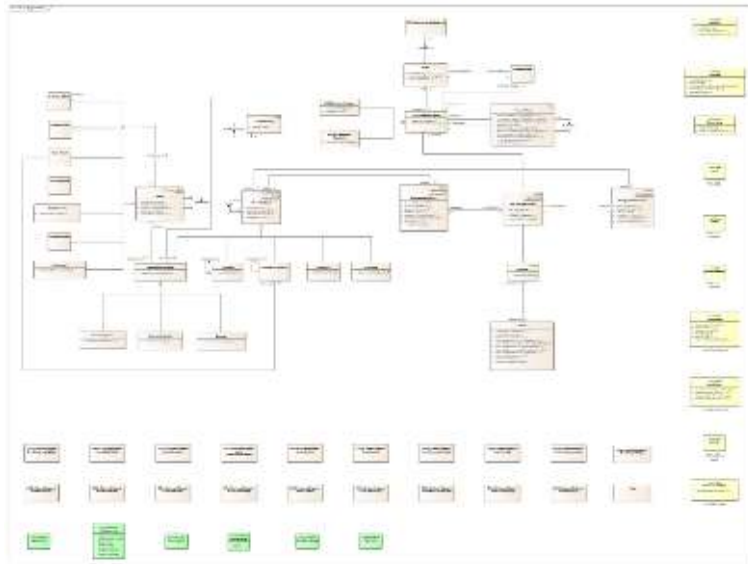
Olivier Van D'huynslager (Design Museum Gent)



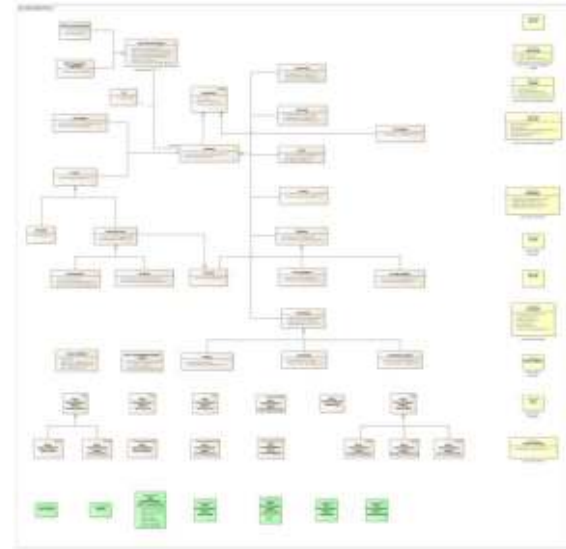
First working group OSLO Cultural Heritage - January 2019 - Paleis der academiën

Description model for objects + activities

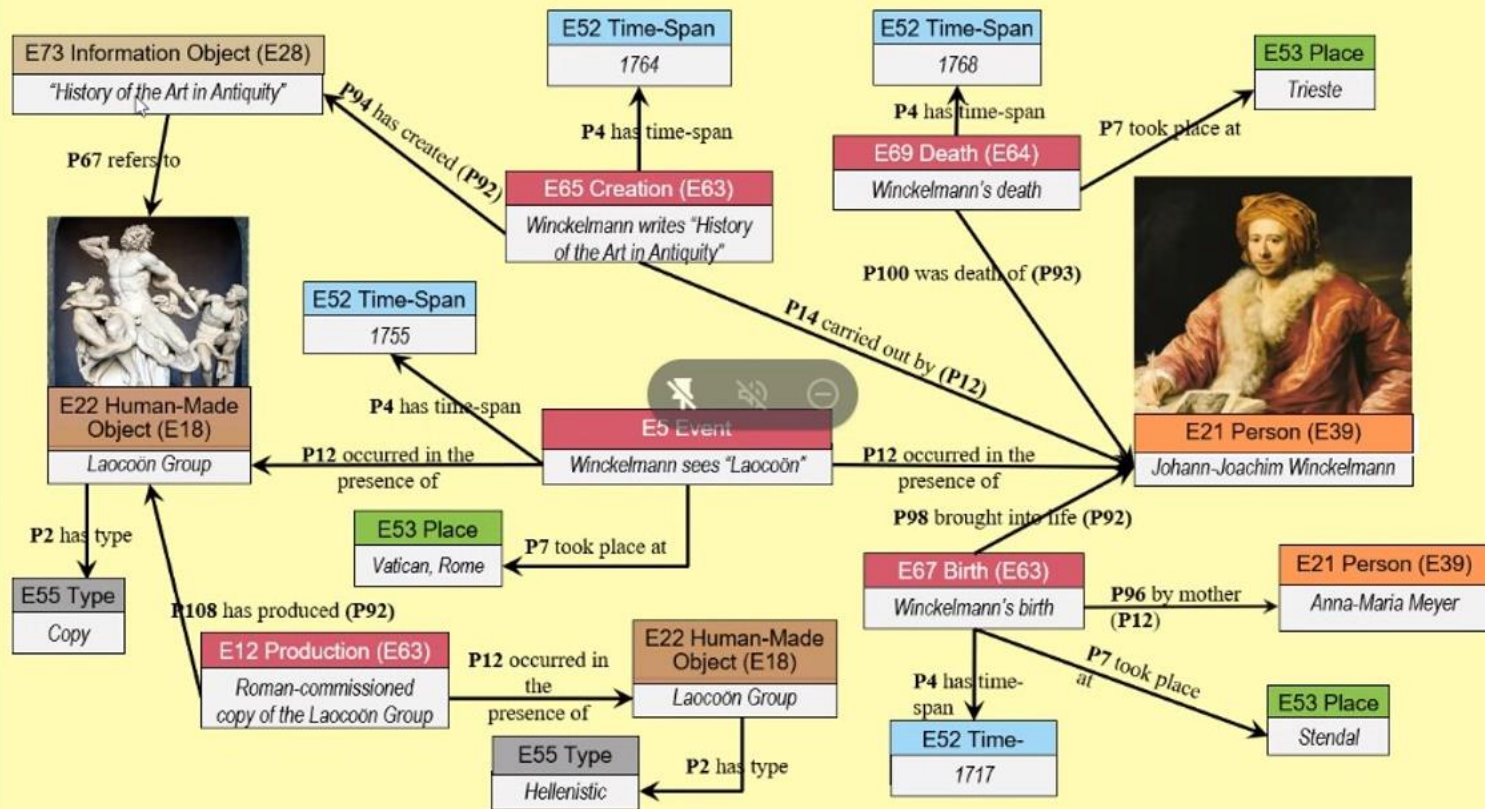
Makes use of CIDOC-CRM + Linked Art



OSLO Cultureel Erfgoed Object



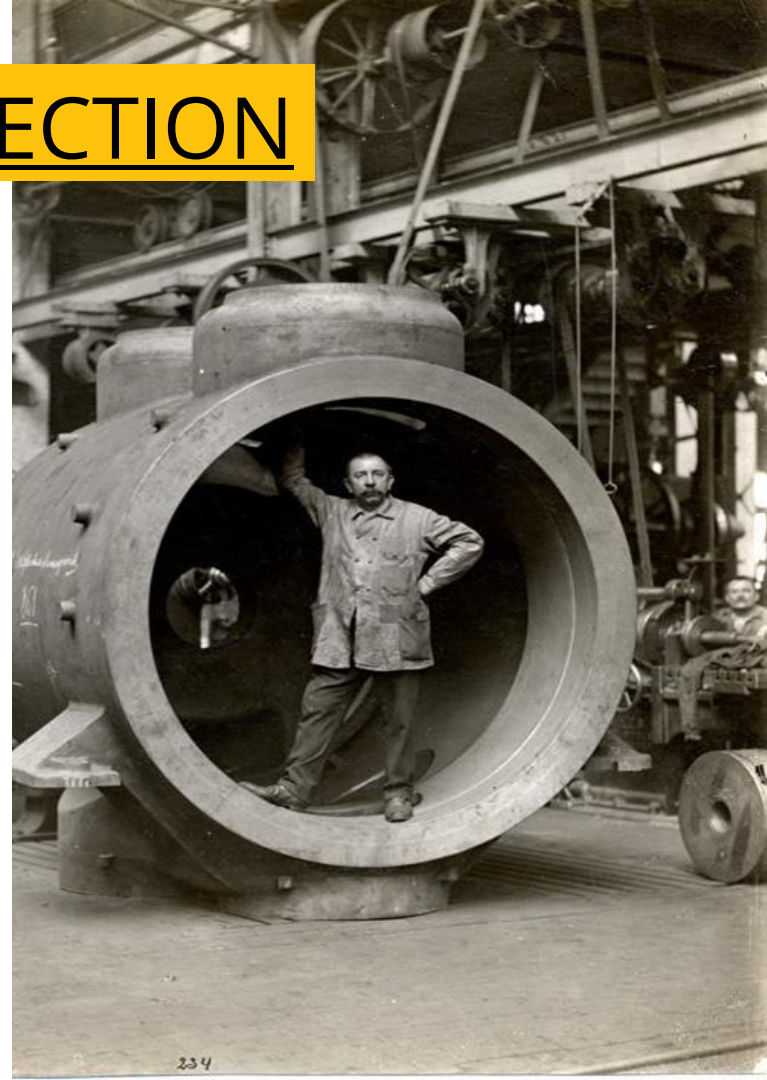
OSLO Cultureel Erfgoed Event



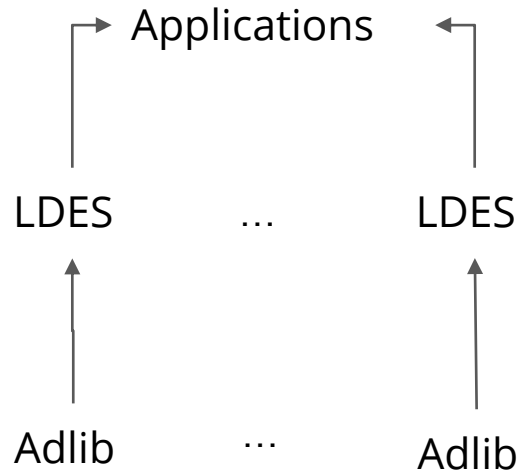
"CATCH-UP DIGITAL COLLECTION DATA"

*"deploying the collection data as open data and making **visible** / **valorizing** the collection (data), in accordance with the **OSLO exchange standard** for cultural heritage;"*

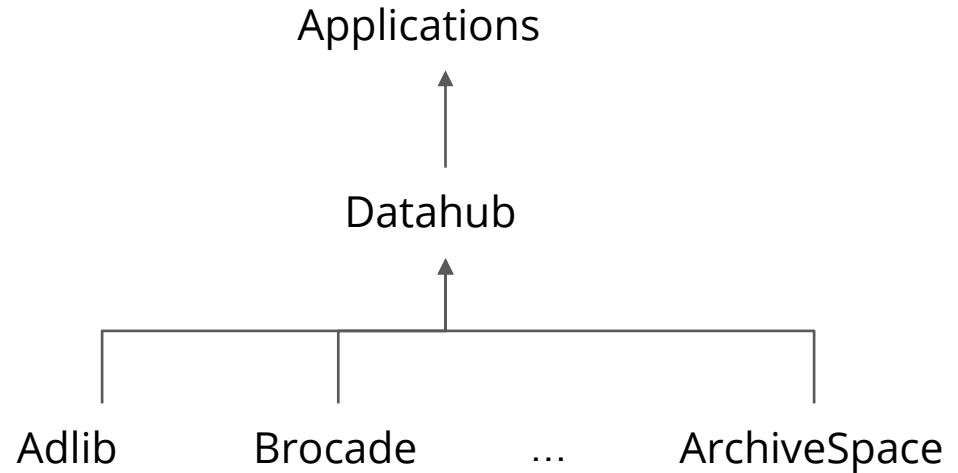
Connect organizations across domains by implementing shared standards.



Creating links between collections of CHIs - via (de-)central data publication.

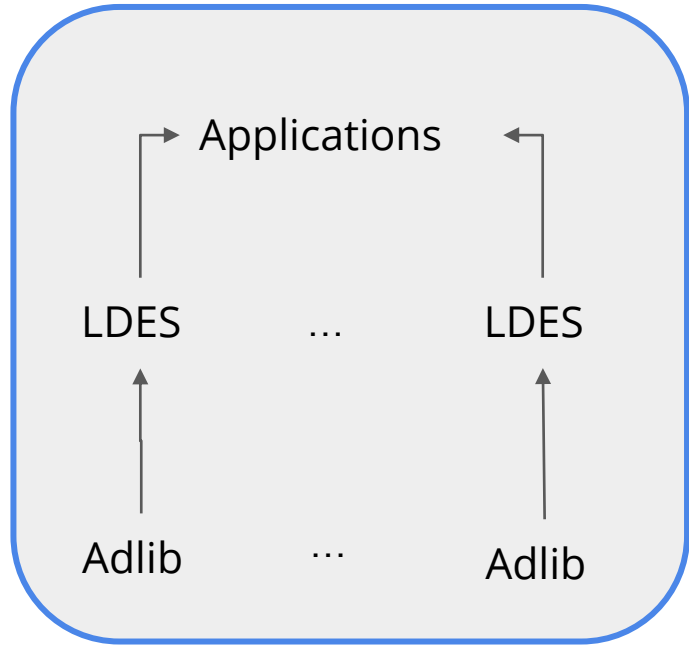


Ghent

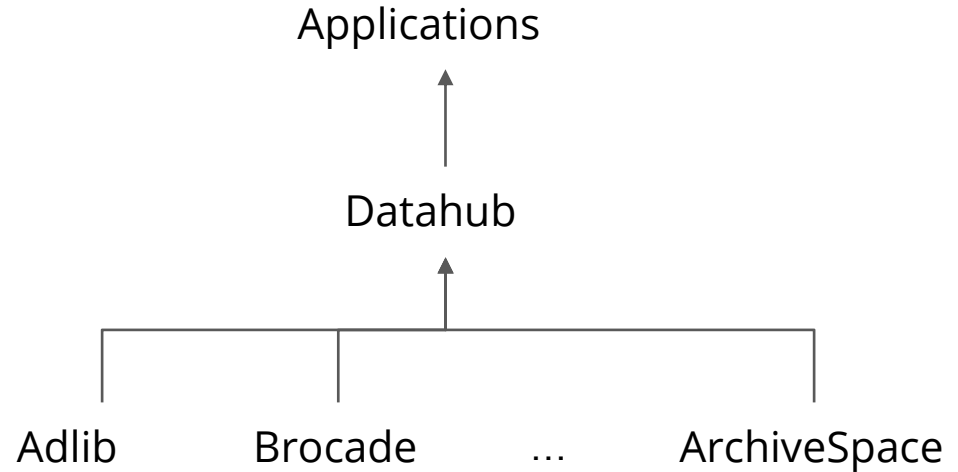


Antwerp

Creating links between collections of CHIs - via (de-)central data publication.



Ghent



Antwerp

Cultural Heritage object = **DYNAMIC** objects

**** subject to change**

V1



Bed Lobkowitz - tentoonstelling Oude Vlaamse Kunst (1913)

V2



Bed Lobkowitz - collectie opstelling

V3



Bed Lobkowitz - tentoonstelling Piet Stockmans (1968)

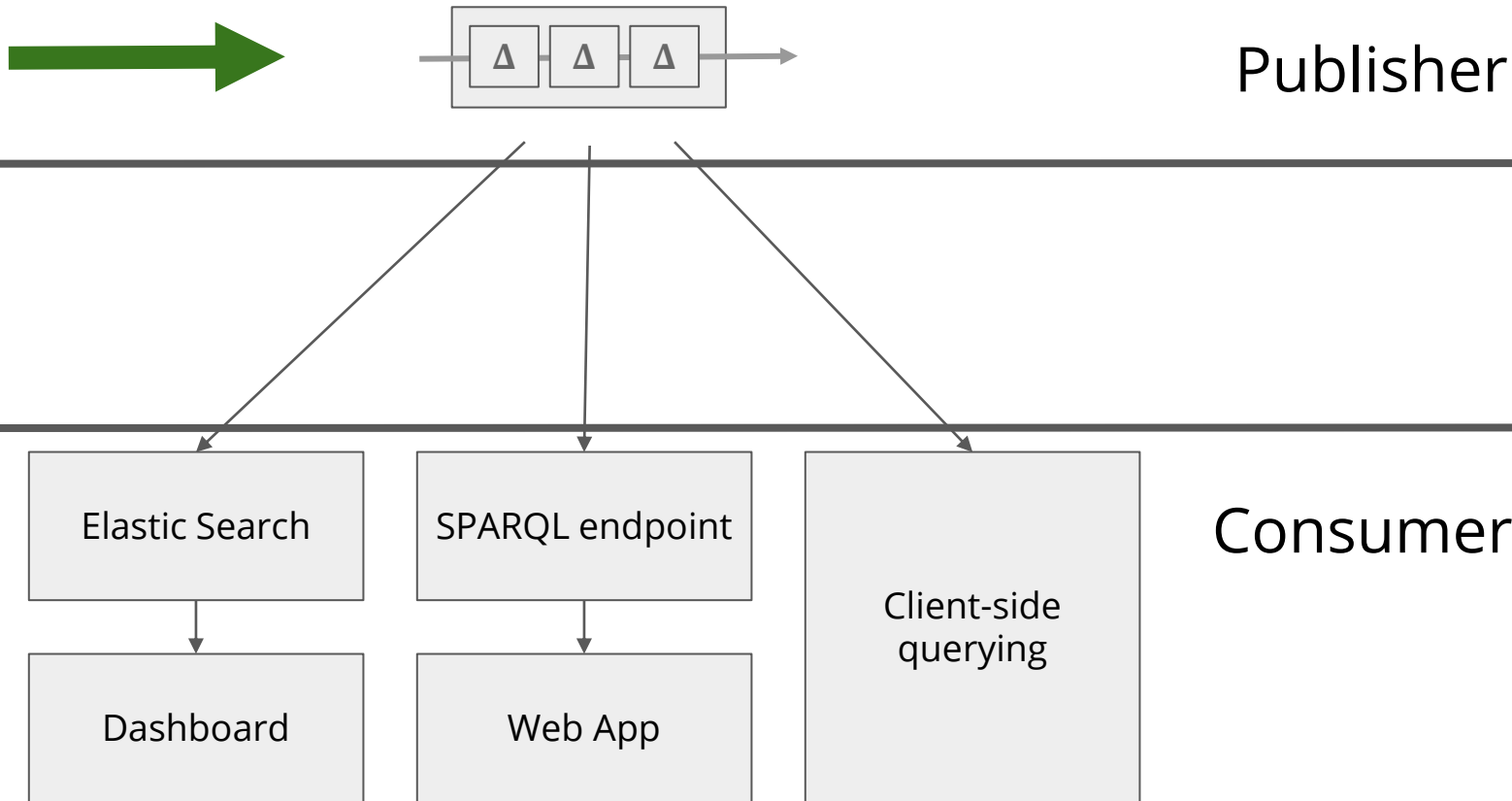
V4

V5

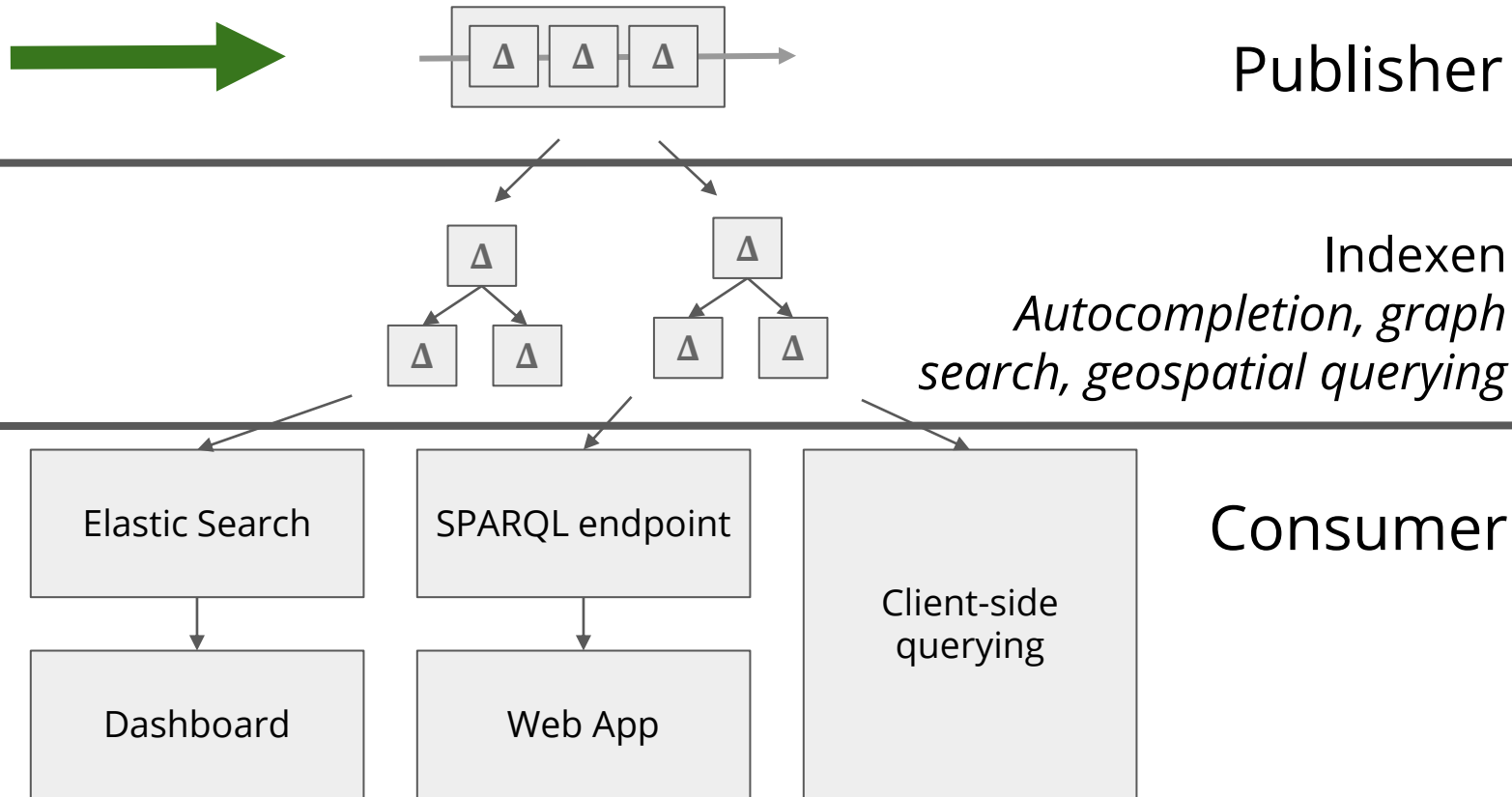
...

EVENTS

Linked Data Event streams (LDES): REPLICATION + SYNCHRONISATION



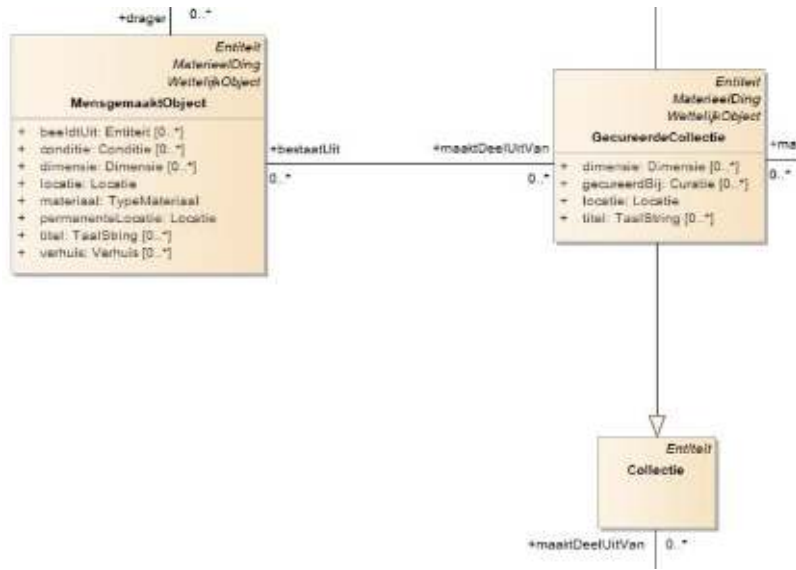
Linked Data Event streams (LDES): REPLICATION + SYNCHRONISATION



JSON-LD according to OSLO Cultureel Erfgoed Object

MensgemaaktObject, Geceureerde collectie, Dimensie...

Human-made object, E78_Collection, dimension



MaterieelDing.beheerder: "<http://www.wikidata.org/entity/Q1809071>",

MensgemaaktObject.maaktDeelUitVan: [

```
- {
  @type: "Collectie",
  Entiteit.beschrijving: "huishoudelijke apparaten (ok)",
  Entiteit.type: {
    @id: "http://vocab.getty.edu/aat/300257284",
    label: "huishoudelijke apparaten (ok)"
  }
},
- {
  @type: "Collectie",
  Entiteit.beschrijving: "Nova",
  Entiteit.type: {
    @id: "https://stad.gent/id/concept/530009137",
    label: "Nova"
  }
}
],
```

<https://data.vlaanderen.be/doc/applicatieprofiel/cultureel-erfgoed-object>

ADLIB (JSON) → LDES (JSON-LD)

```
preref: [
  "530009722"
],
Production: [{
  creator: [
    "Nova"
  ],
  creator.date_of_birth: [
    "1990-08-22"
  ],
  ...
],
Production_date: [
  {
    production.date.end: [
      "1972"
    ]
  }
]
```

```
..
MaterieelDing.productie: [
  - {
    @type: "Productie",
    Productie.product: "https://stad.gent/id/mensgemaaktoobject/dmg/530009722",
    - Gebeurtenis.tijd: {
      @type: "Periode",
      Periode.einde: "1972"
    },
    - Activiteit.uitgevoerdDoor: {
      @id: "https://stad.gent/id/entiteit/530001198",
      @type: "Agent",
      volledigeNaam: "Nova"
    },
    - Gebeurtenis.plaats: {
      @id: "http://vocab.getty.edu/page/tgn/7008015",
      label: "Tongeren"
    },
    - @reverse: {
      - Rol.activiteit: {
        @type: "Rol",
        Rol.agent: "https://stad.gent/id/entiteit/530001198",
        Rol.rol: "http://vocab.getty.edu/aat/300197742"
      }
    }
  }
],
}
```

<https://data.vlaanderen.be/doc/applicatieprofiel/cultureel-erfgoed-event>

METADATA ROUNDTRIPPING

From source to publication to source.

ADLIB →

LDES →

ADLIB?

!! CEST

```
▼ MensgemaaktObject.maaktDeelUitVan:
  ▼ 0:
    @id: "https://stad.gent/id/concept/670001028"
    @type: "Collectie"
    Entiteit.type:
      ▼ 0:
        @id: "cest:Naam_collectie"
        label: "collectie"
      Entiteit.type:
        @value: "OBJECT"
      Entiteit.classificatie:
        ▼ 0:
          @type: "Classificatie"
          Classificatie.gettypeerdeEntiteit: "https://stad.gent/id/mensgemaaktobject/archiefgent/670010367"
          Classificatie.toegekendType:
            @id: "https://stad.gent/id/concept/670001029"
            skos:prefLabel:
              @value: "foto's SCMS"
              @language: "n1"
            Entiteit.type:
              @id: "cest:Objectcategorie"
              label: "object_category"
          ▼ 1:
```

https://www.projectcest.be/wiki/Publicatie:Invulboek_objecten/Veld/Naam_collectie

SHACL shapes

language for validating RDF graphs against a set of conditions. These conditions are provided as shapes and other constructs expressed in the form of an RDF graph.

CIDOC-Equivalent

OSLO-Term

cardinality



```
},
{
  "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P50_has_current_keeper",
  "sh:class": "http://purl.org/dc/terms/Agent",
  "sh:name": "MateriaalDing.beheerder",
  "sh:nodeKind": "sh:IRI",
  "sh:minCount": 1,
  "sh:maxCount": 1
},
{
  "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P46i_forms_part_of",
  "sh:class": "http://purl.org/dc/dcmitype/Collection",
  "sh:name": "MensgemaaktObject.maaktDeelUitVan",
  "sh:node": {
    "sh:datatype": "http://purl.org/dc/dcmitype/Collection",
    "sh:name": "Entiteit.beschrijving",
    "sh:minCount": 1,
    "sh:maxCount": 1,
    "sh:node": {
      "sh:name": "Entiteit.type",
      "sh:nodeKind": "IRI",
      "sh:maxCount": 1,
      "sh:minCount": 1
    }
  }
},
}
```

1 SHACL shape / institution (based on mapping constraints)

SHACL shapes

language for validating RDF graphs against a set of conditions. These conditions are provided as shapes and other constructs expressed in the form of an RDF graph

DEFINE PATTERN CONSTRAINTS

```
"sh:nodeKind": "sh:IRI" .  
"sh:pattern": "https://stad.gent/id/agent/\d{9}",  
"minCount": 1,  
"maxCount": 1,  
"sh:node": {
```

1 SHACL shape / institution (based on mapping constraints)

```
},  
{  
  "sh:path": "http://www.cidoc-crm.org/cidoc-crm/P50_has_current_keeper",  
  "sh:class": "http://purl.org/dc/terms/Agent",  
  "sh:name": "MateriaalDino.beheerder".  
}
```

```
"sh:maxCount": 1,  
"sh:node": {  
  "sh:name": "Entiteit.type",  
  "sh:nodeKind": "IRI",  
  "sh:maxCount": 1,  
  "sh:minCount": 1  
}  
}  
},  
,
```


Link with Digital Asset Management Systeem (DAMS)

```
- Entiteit.isHetOnderwerpVan: [  
  - {  
    @id: "https://api.collectie.gent/iiif/presentation/v2/manifest/archiefgent:IC_AG_W_130",  
    @type: "DigitalObject",  
    - conforms_to: [  
      - {  
        @id: "https://iiif.io/api/presentation",  
        @type: "InformatieObject"  
      }  
    ],  
    format: "application/ld+json;profile=\"http://iiif.io/api/presentation/2/context.json\""  
  },  
]
```



Gent: Panoramisch zicht op Gent vanaf Heernis, Collectie van de Gentenaar, Archief Gent CC0

Link with Digital Asset Management System (DAMS)

- Entiteit.isHetOnder

```
@id: "http
```

```
@type: "Di
```

- conforms to

101

④

}

J,

```
format: "%d"
```

2

1,

```

@context: "https://api.collectie.gent/v2/context.json"
- @id: "https://api.collectie.gent/v2/presentation/v2/paintfest/archief/gent:IC_AG_#_138"
  @type: "sc:Manifest"
  @label:
    @value: "Gent: Paintfest zicht op Gent vanaf Heermis"
    @language: "nl"
  @description: "De heersen van de Heermis zulten de Damport, krakr'nd op de voorkant een stempel van Bibliotheca Gandavensis."
  @rendering:
    - @id: "https://stad.gent/id/object/object/archief/gent/67001500/7072-00-20T07:15:39_000?"
  @sequences:
    - @:
        @type: "sc:Sequence"
        @carvases:
          - @:
              @id: "https://api.collectie.gent/v2/canvas/7c2fc5d25bdada38cb5e7d7626da498e-transcode-IC_AG_#_138.jpg.json"
              @type: "sc:Canvas"
              @label: "7c2fc5d25bdada38cb5e7d7626da498e-transcode-IC_AG_#_138.jpg"
              height: 3988
              width: 6160
              @images:
                - @:
                    @type: "oa:Annotation"
                    attribution: "Source: Archief Gent"
                    license: "https://creativecommons.org/publicdomain/zero/1.0/"
                    motivation: "sc:painting"
                    @resource:
                      - @id: "https://api.collectie.ge./full/full/0/default.jpg"
                        @type: "dctypes:Image"
                        format: "image/jpeg"
                        height: 3988
                        width: 6160
                        @service: {}
                  - @: "https://api.collectie.gent/v2/canvas/7c2fc5d25bdada38cb5e7d7626da498e-transcode-IC_AG_#_138.jpg.json"

```



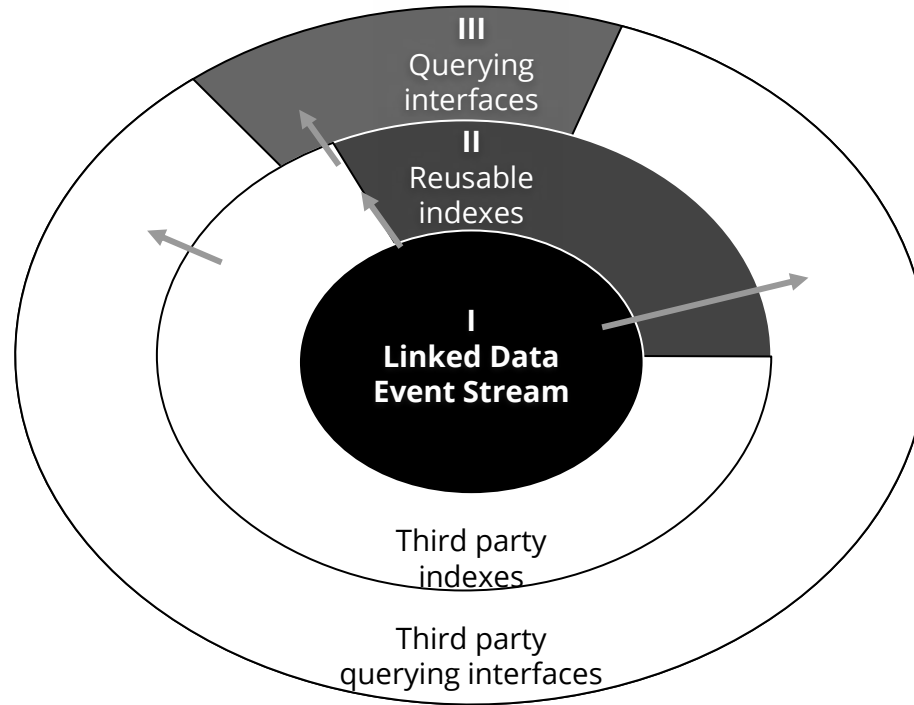
Gentenaar,

TERMENNETWERK (AUTHORITY LIST)

RECONCILIATION NOT UNIFORMISATION

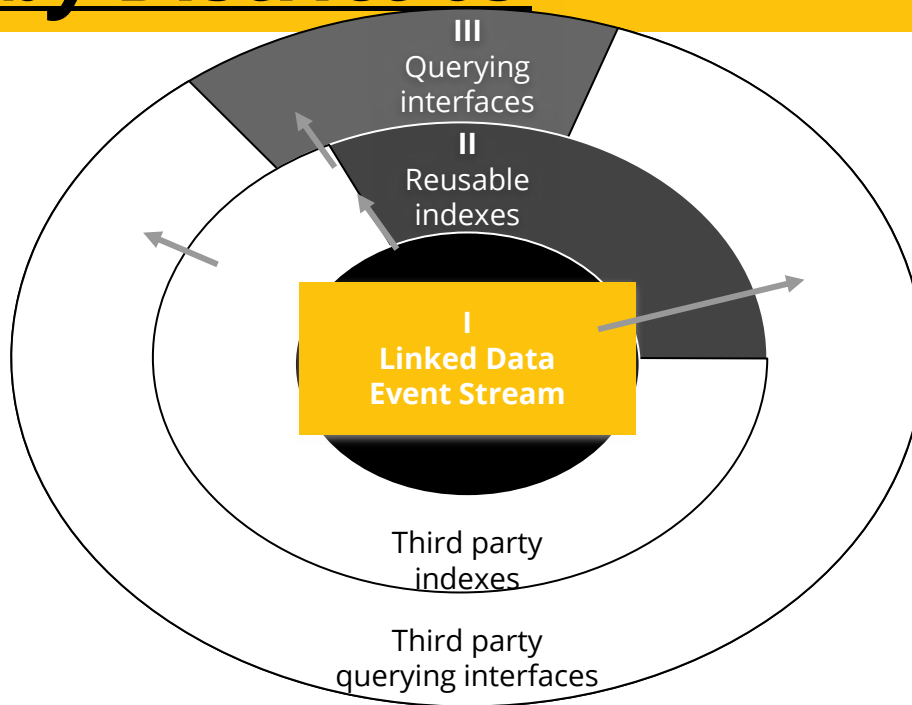
CoGhent publishes authority lists as they appear in the CMS. If possible, each term is linked with a broadly acknowledged authority list such as AAT. This way we safeguard the unique interpretations and definitions of terms in each institution without losing the possibility of linking across institutions.

LDES; part of .. a bigger ecosystem.



One LDES per CHI.

Published by District 09



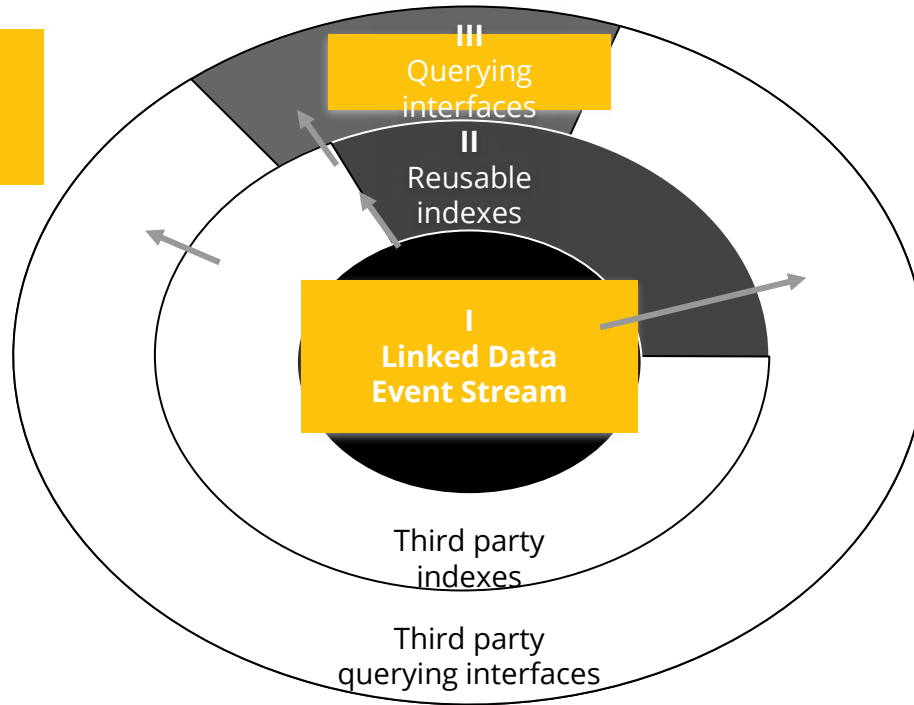
STAM



<https://apidg.gent.be/opendata/adlib2eventstream/v1/>

Persistent URIs by Stad Gent

Triple store
Virtuoso



<https://github.com/nvdk/ldes-to-linkedpipes>

URI template: <https://stad.gent/id/...>

Each institution chooses its own webpage - (foaf:page)

```
@id: "https://stad.gent/id/mensgemaaktoject/dmg/530028810/2022-05-07T00:12:28.294Z",  
@type: "Mensgemaaktoject",  
dcterms:isVersionOf: "https://stad.gent/id/mensgemaaktoject/dmg/530028810",  
prev:generatedAtTime: "2022-05-07T00:12:28.294Z",  
foaf:page: "https://stad.gent/data/mensgemaaktoject/dmg/530028810/2022-05-07T00:12:28.294Z",
```

stad.gent/id/mensgemaaktoject/dmg/530028810/2022-05-07T00:12:28.294Z

gent: Linked Open Data

Home Datasets Query editor

detail view

Has predicate P100_has_title

http://www.wikidata.org/property/P100_has_title

Gent: Sesuik, richt vanaf totmorgen

Has predicate P1001_was_produced_by

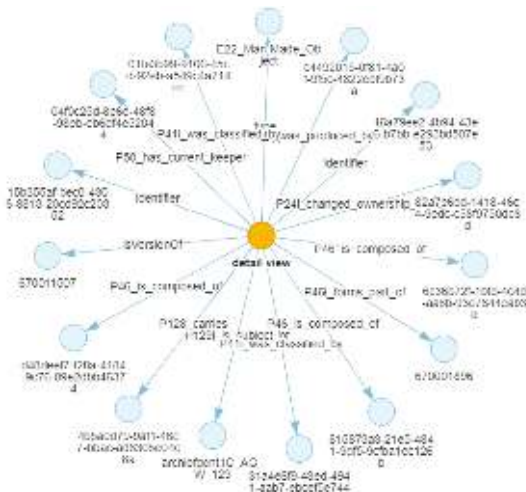
http://www.wikidata.org/property/P1001_was_produced_by

<https://stad.gent/id/well-known/skolem/c4492015-0f81-4a0f-9f5c-4822ebf9b73a>

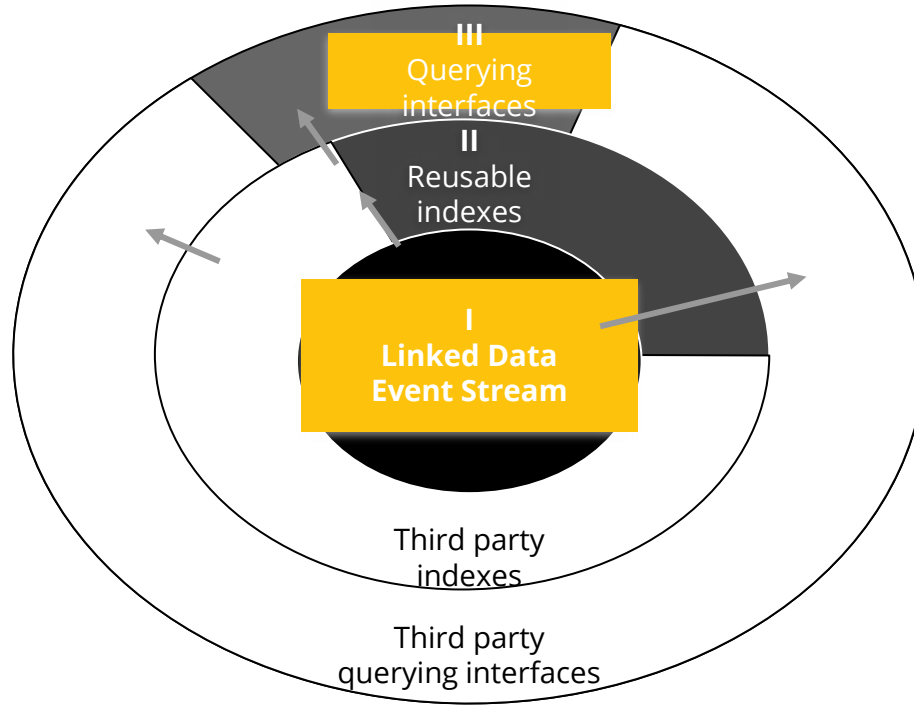
Has predicate P128_captions

http://www.wikidata.org/property/P128_captions

<https://stad.gent/id/well-known/skolem/4b5a0d79-9af1-46e7-bbac-ad605e04c83a>



Citywide integration layer with SPARQL



Ambition: generate connections across sectors.

gent:



Gezin aan tafel op het terras van de Neptune, Collectie van de Gentenaar, CC0



Foto door Stephan Müller via Pexels



Foto door Jonathan Borba via Pexels

data.collectie.gent

III
Querying
interfaces

GraphQL

II
Reusable

Duik mee in de geschiedenis en ontdek
de vele objecten uit onze **rijke collectie!**

Zoeken

Laat je verrassen

✓ Alle werken

Archief Gent

Huis van Aijin

Industriemuseum

STAM - Stadsmuseum Gent

Design Museum Gent

Binnenstad

L.F. De Vos & Co

auto

porselein

circus

jaren 1960

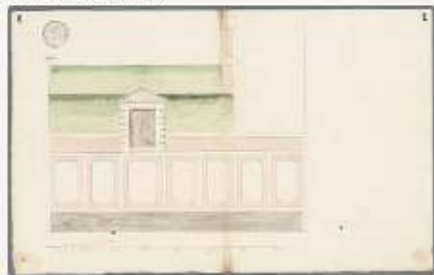
Sacré, Edmond

publiciteit

2de kwart 20ste eeuw

speelgoed

Aantal resultaten: 5/392



Cogent Box



Cogent Box



THANKS TO:

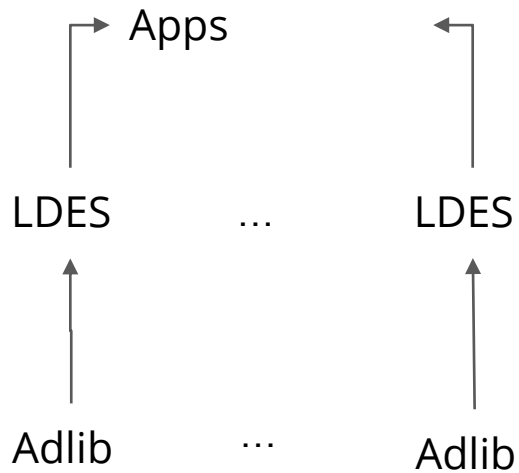


STAM

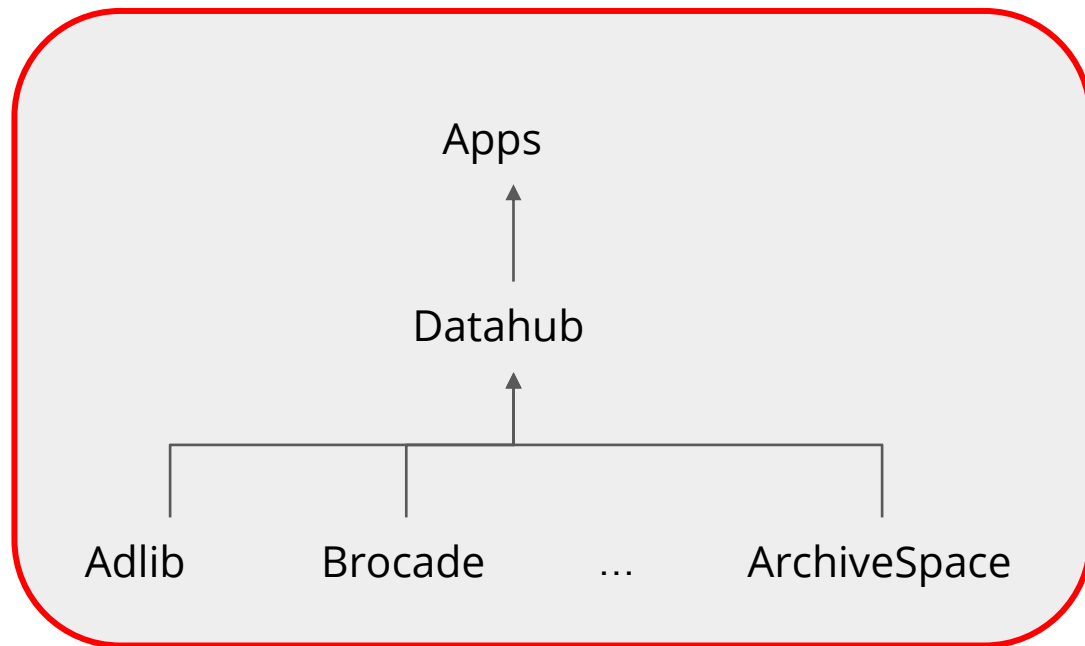


Datahub Museums and Heritage Collections Antwerp





Gent

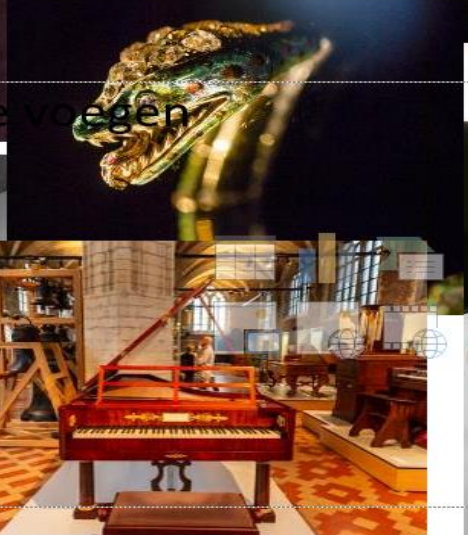


Antwerpen

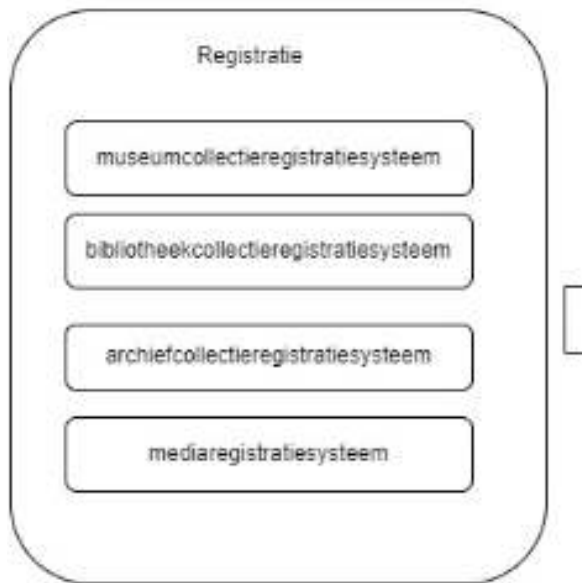
Very diverse heritage collections within 1 city

Kunstenstad Antwerpen

• Klik om tekst toe te voegen



Collection registration systems



- Bibliotheekbeheersysteem voor beschrijving volgens metadatastandaarden, ontsluiting, beheer en gebruik van **boeken en bibliografische beschrijvingen** (proces van aankoop, over beschrijving tot dienstverlening aan gebruikers).
- Archiefbeheersysteem voor acquisitie, beschrijving volgens metadatastandaarden, ontsluiting, beheer en dienstverlening van **archiefcollecties**.
- Collectiebeheersysteem voor **musea**: acquisitie, beschrijving volgens metadatastandaarden, ontsluiting en beheer
- Mediaregistratiesysteem voor beheer van en beschrijving technische metadata van digitale bestanden



Brontoepassingen

MUSEUM	LIBRARY	ARCHIVES	IMAGES
<u>Adlib</u>	<u>Brocade</u>	<u>ArchivesSpace</u> + <u>Arches</u>	DAMS
TMS	KOHA	KOHA	<u>ResourceSpace</u>
QI			



Just one system for all?

Very different requirements:

- Exhibitions versus reading rooms in libraries: different **user flows**
- A book is not a sculpture is not a letter: very broad range of **metadata**
- **Copyright restrictions** are very different

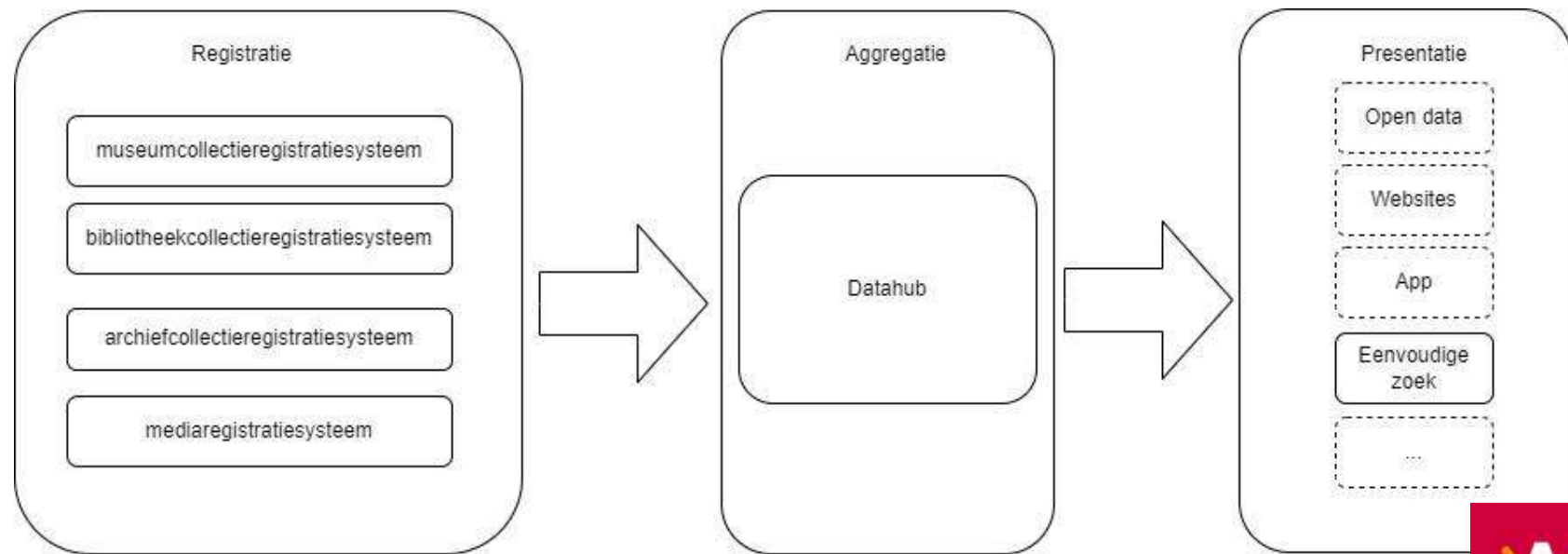


Datahub

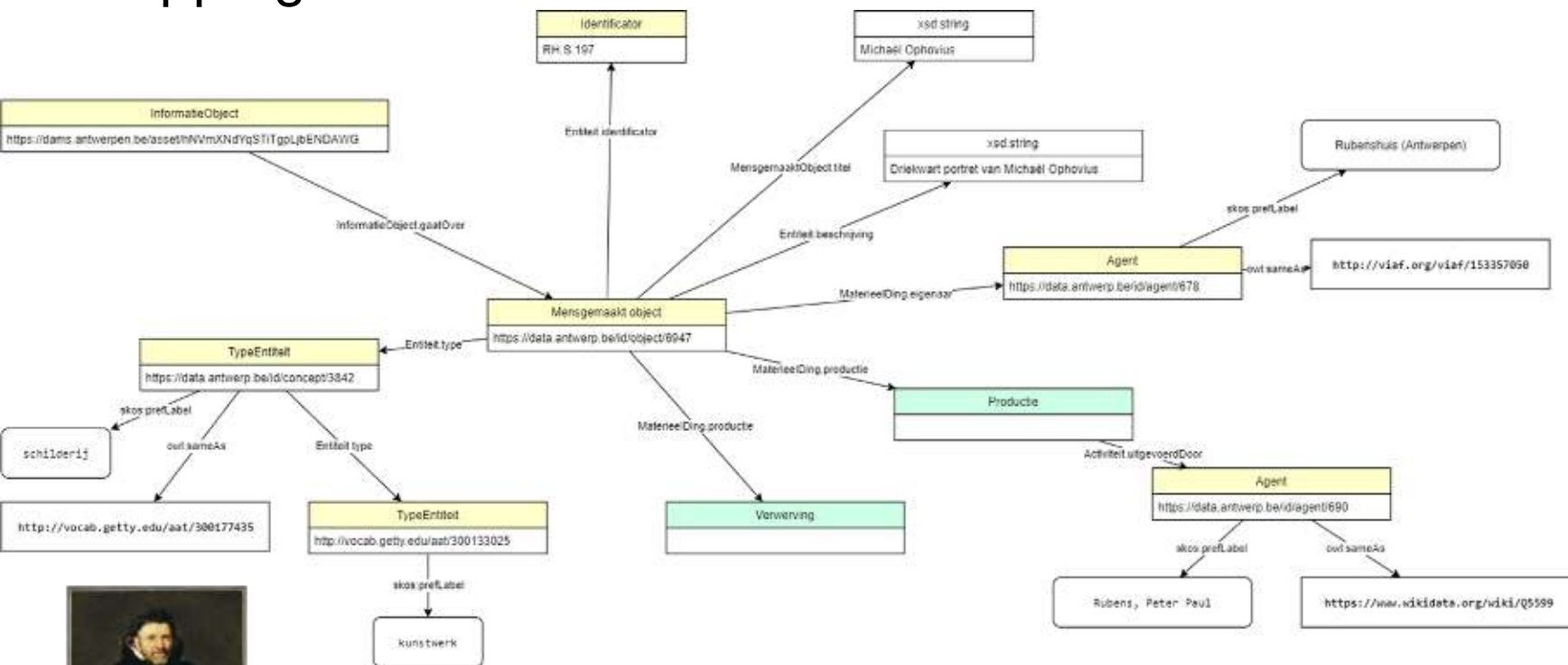
- We want one website or app to **search** in all heritage collections of the city of Antwerp
- We want our collections to be **linked and connected**
- We need a **sustainable architectural setup** which can be expanded when asked for
- We want to share our data (and our collections) with the **public**
- We want to make the use of our collections as easy as possible for all **kind of websites and apps**



Eco-system



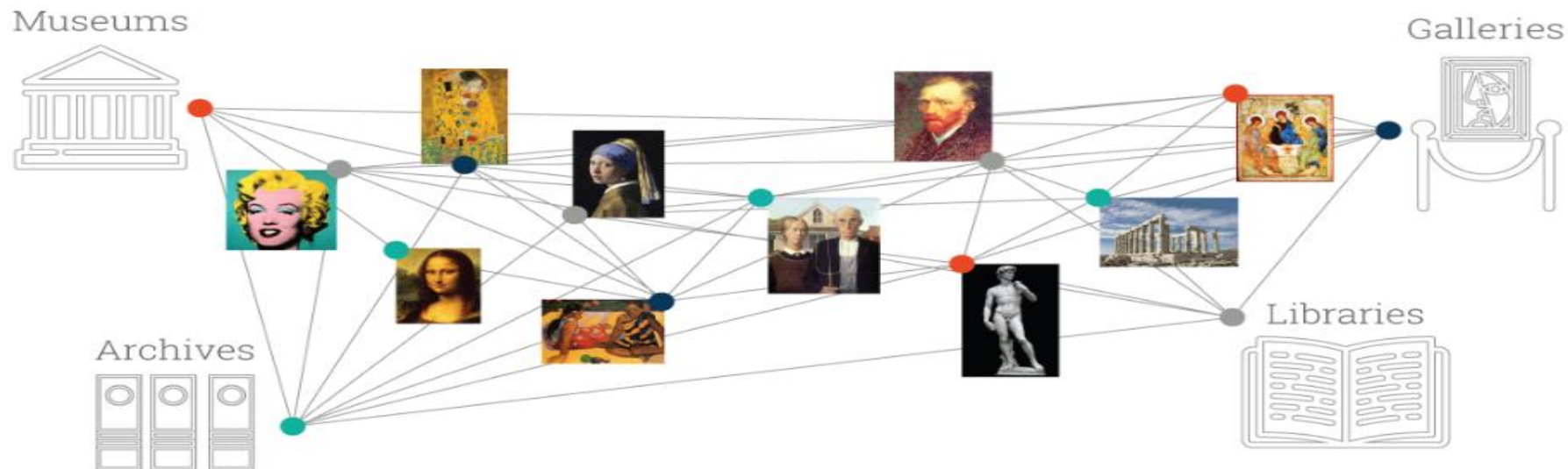
Mapping of metadata



Collectie Stad Antwerpen, Rubenshuis



Linked authorities (Wikipedia, Getty, Flickr, ...)



Linked open data

https://fr.wikipedia.org/wiki/Mathieu_de_Morques

[illegible]

Linked open data



schilderij (<http://vocab.getty.edu/aat/300177435>), Museum Plantin-Moretus

[Plus de détails](#)

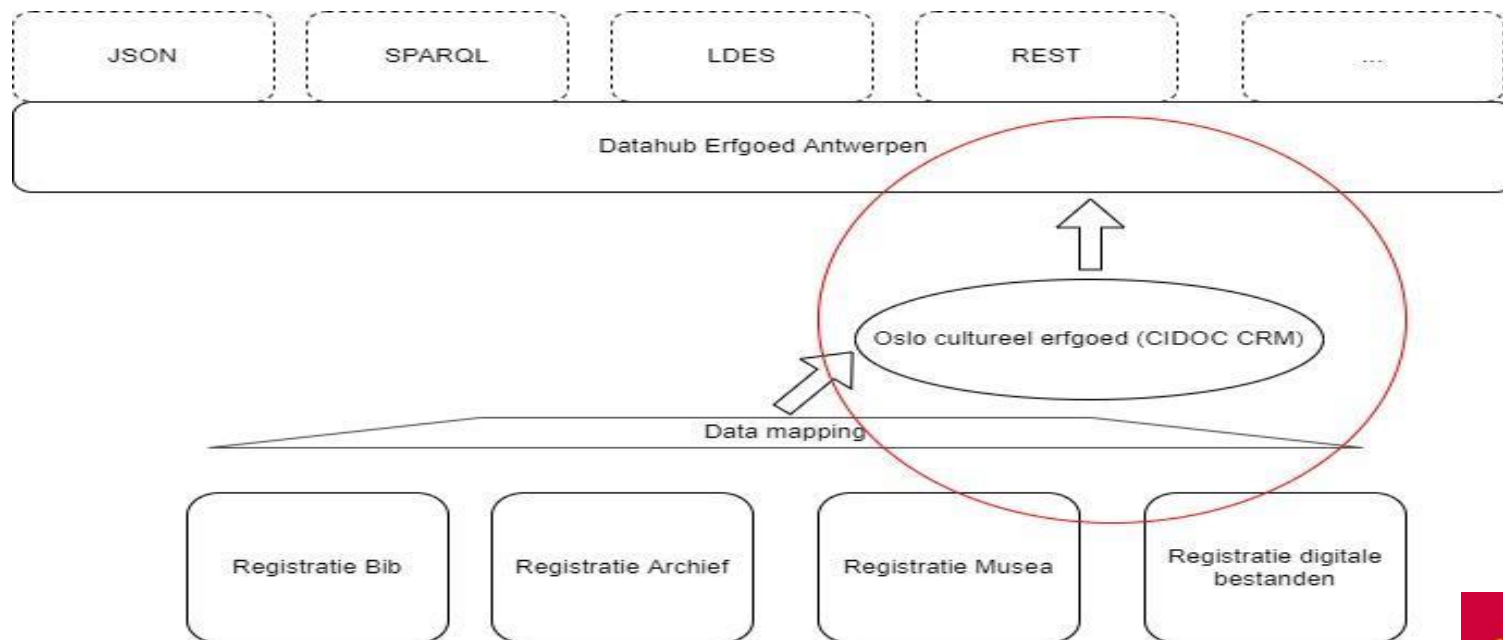
References <https://search.museumplantinmoretus.be/Details/collect/209924>

Source/Photographer <https://dams.antwerpen.be/asset/wVuBWj79UOZjYsJnJn2IndcH>

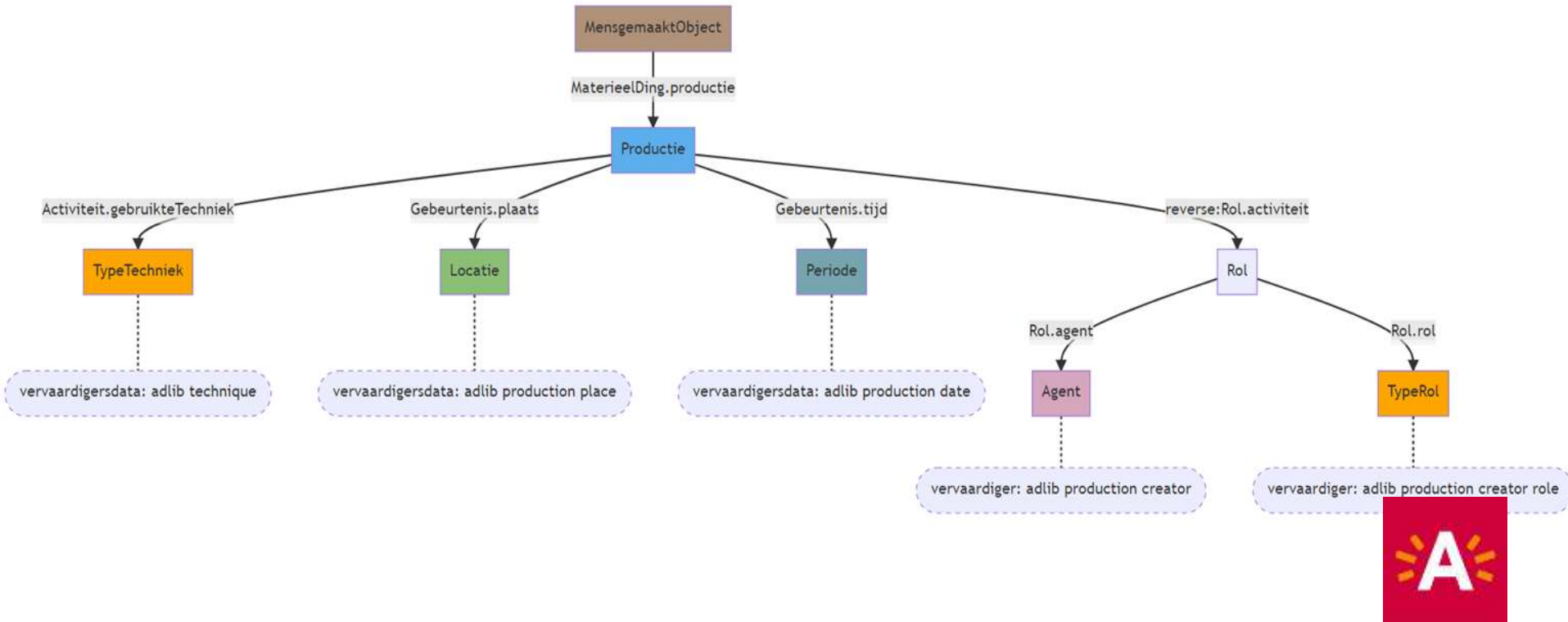
[https://commons.wikimedia.org/wiki/File:Portret_van_Matthieu_de_Morgues, onbekend, schilderij, Museum Plantin-Moretus \(Antwerpen\) - MPM V IV 114.jpg](https://commons.wikimedia.org/wiki/File:Portret_van_Matthieu_de_Morgues,_onbekend,_schilderij,_Museum_Plantin-Moretus_(Antwerpen)_-_MPM_V_IV_114.jpg)



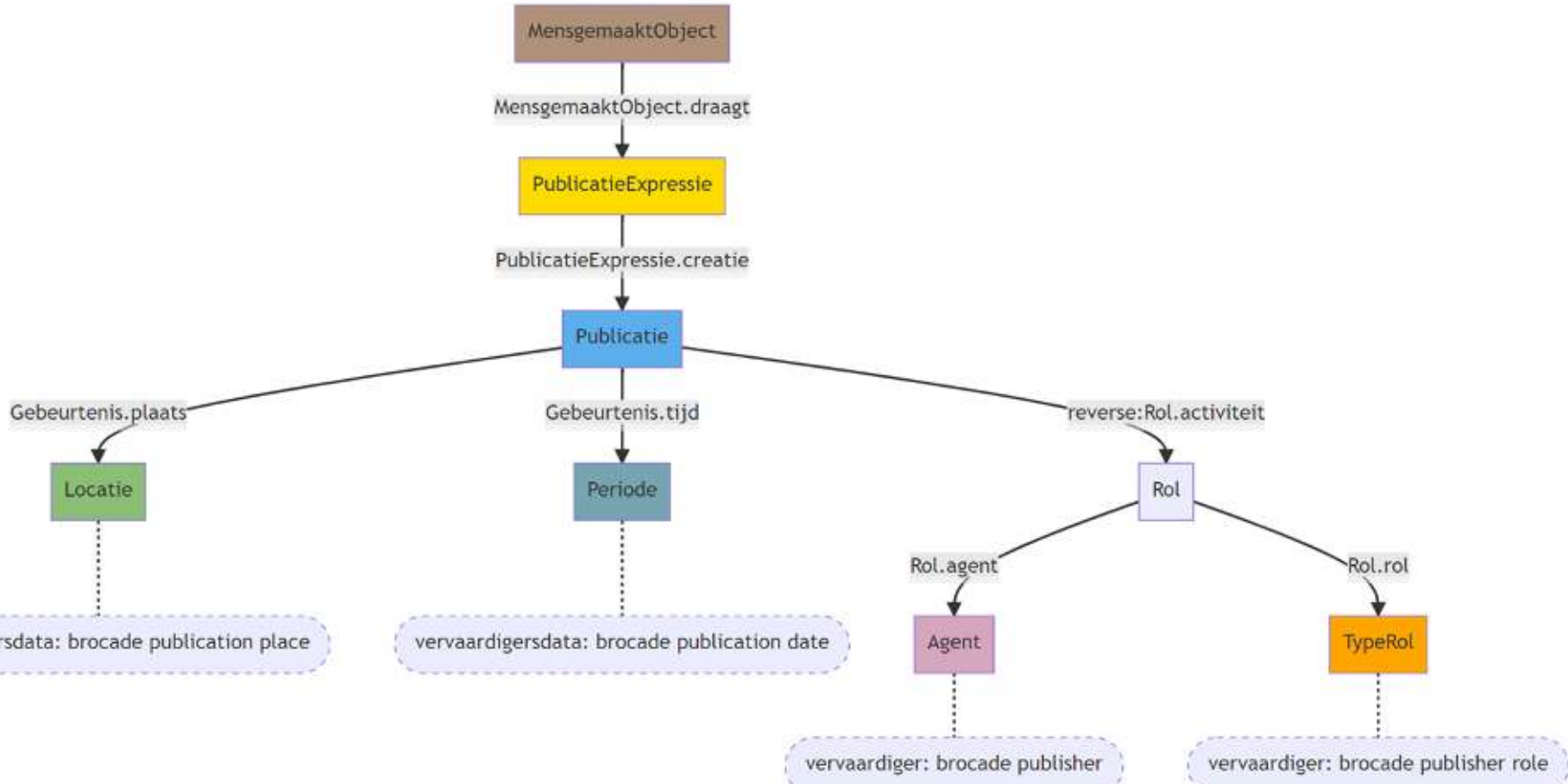
Datahub - concept



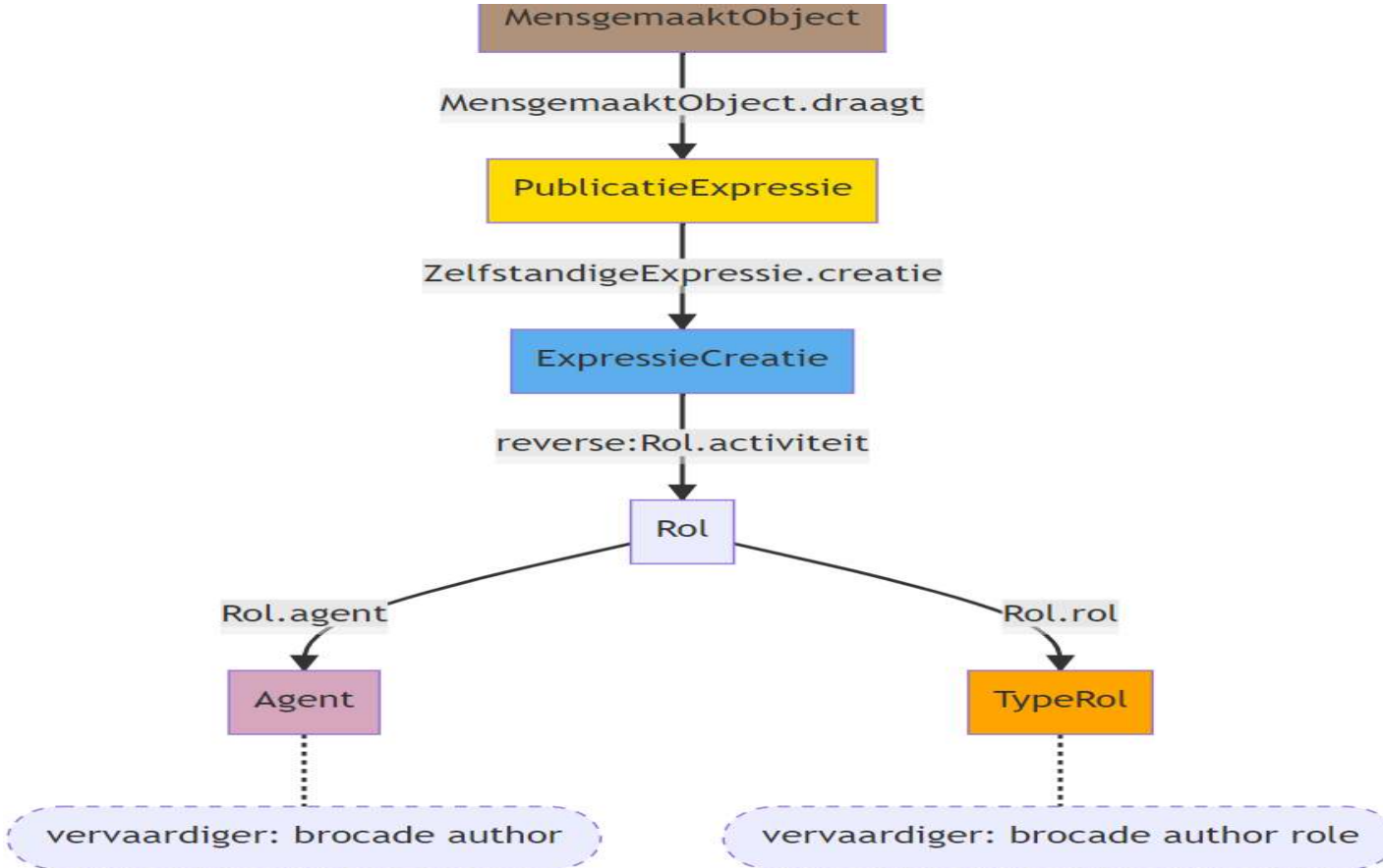
Datahub - mapping



Datahub - mapping



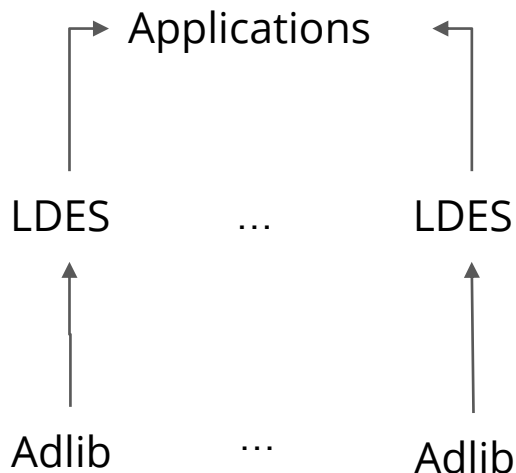
Datahub - mapping



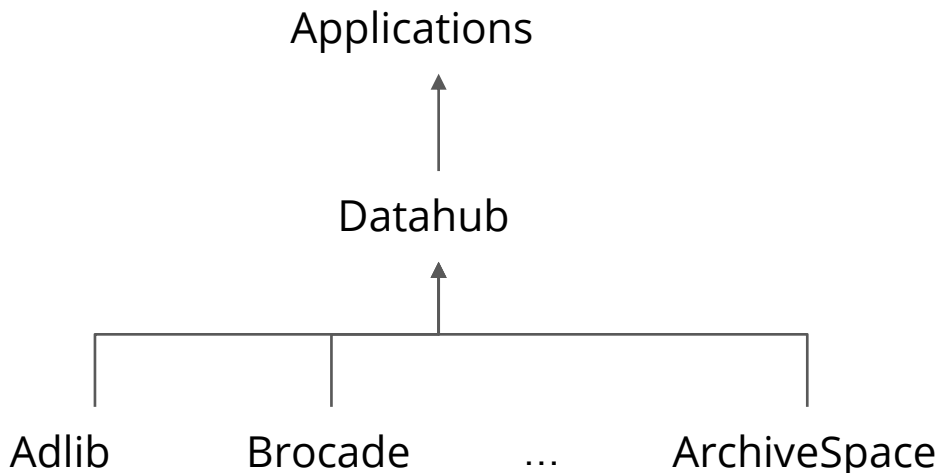
How can we create connections across collections?

Application?

across collections



Ghent



Antwerp

Demo using AAT authority list as connector.

3 datasources:

- Art and Architecture Thesaurus (Getty)
- SPARQL endpoint Ghent-
- Datahub Antwerpen
try [here](#)

se datasources:

<https://prod.digipolis.hubs.delving.org/fragments/> x

<https://lodi.ilabt.imec.be/sparql/getty> x

<https://lodi.ilabt.imec.be/sparql/gent> x

Comunica tool to query data

Knowledge graph query engine

- Heterogenous sources
- Modular
- client-side

<http://query.linkeddatafragments.org/>

Query the Web of Linked Data

Live in your browser, powered by Comunica.



Choose datasources:

<https://odi.ilabt.imec.be/sparql/gent> ✕

<https://odi.ilabt.imec.be/sparql/getty> ✕

Type or pick a query:

```
SPARQL GraphQL-LD
10 ?object cido:P461_forms_part_of ?collectie.
11 ?collectie cido:P2_has_type ?typeCollectie.
12 #?typeCollectie skos:prefLabel ?label
13 #FILTER (lang(?label) = "nl")
14
15 BIND (URI(REPLACE(str(?typeCollectie), "page/", "")) AS ?t).
16 *
17 ?t skos:note ?nlAbstract.
18 * optional {?nlAbstract rdf:value ?v
19 FILTER (lang(?v) = "nl")}
20 }
21 * optional {
22 ?t skos:note ?enAbstract.
23 * optional {?enAbstract rdf:value ?v2
24 FILTER (lang(?v2) = "en")}
25 }
```

Stop execution

42.861 results in 21.6s

Query results:

?v2 "Devices used in a domestic context that facilitate such tasks as food preparation, food storage, cleaning, and grooming and that are powered by fuel or electricity."@en

?collectie <https://stad.gent/id/concept/530009136>

?v "Toestellen die door brandstof of elektriciteit worden aangedreven en die in het huishouden worden gebruikt voor het vergemakkelijken van taken zoals het bereiden van een maaltijd, het opslaan van voeding, schoonmaken en verzorging."@nl

?typeCollectie <http://vocab.getty.edu/page/aat/300257284>

?t <http://vocab.getty.edu/aat/300257284>

?collectie <https://stad.gent/id/concept/530009136>

?v "Toestellen die door brandstof of elektriciteit worden aangedreven en die in het huishouden worden gebruikt voor het vergemakkelijken van taken zoals het bereiden van een maaltijd, het opslaan van voeding, schoonmaken en verzorging."@nl

?typeCollectie <http://vocab.getty.edu/page/aat/300257284>

?t <http://vocab.getty.edu/aat/300257284>

Demo: query “vase”

Concept you are interested in

BIND (<<http://vocab.getty.edu/aat/300132254>> as ?subtype)

```
# Objects from Ghent
{
  ?object cidoc:P102_has_title ?title ;
          cidoc:P41i_was_classified_by [
            cidoc:P42_assigned ?subtype ;
          ] ;
          cidoc:P129i_is_subject_of ?dams .
}
UNION
# Objects from Antwerp
{
  ?object cidoc:P102_has_title ?title ;
          cidoc:P2_has_type [ owl:sameAs ?subtype ] .
  BIND (str(replace(str(?object),"https://data.antwerp.be/id/mensgemaaktobject/", "")) as ?id) .
  BIND (URI(concat("https://dams.antwerpen.be/zoeken?search=",?id)) AS ?dams) .
}
```

Entiteit.classificatie
(OSLO Cultureel
erfgoed Event)

Link to IIIF manifest
published via DAMS

Entiteit.type (OSLO
Cultureel erfgoed
Object)

Link to DAMS via
search API

Result: 241 vases in 585.7s

Stop execution

241 results in 585.7s

Query results:

?object <https://data.antwerpen.be/id/mensgemaaktobject/AV.1938.014.068>
?subtype <http://vocab.getty.edu/aat/300132254>
?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.068>

?title "Vaas versierd met bloemenranken"@nl-nl
?object <https://data.antwerpen.be/id/mensgemaaktobject/MPM.V.II.10.7.051.1-3>
?subtype <http://vocab.getty.edu/aat/300132254>
?dams <https://dams.antwerpen.be/zoeken?search=MPM.V.II.10.7.051.1-3>

?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"@nl-nl
?object <https://data.antwerpen.be/id/mensgemaaktobject/AV.1938.014.073>
?subtype <http://vocab.getty.edu/aat/300132254>
?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.073>

?title "Kelkvormige vaas met veelkleurig bloemenmotief en namaakboeket (voor schouwgarrituur)"@nl-nl
?object <https://data.antwerpen.be/id/mensgemaaktobject/VM.2008.316.327.2-2>

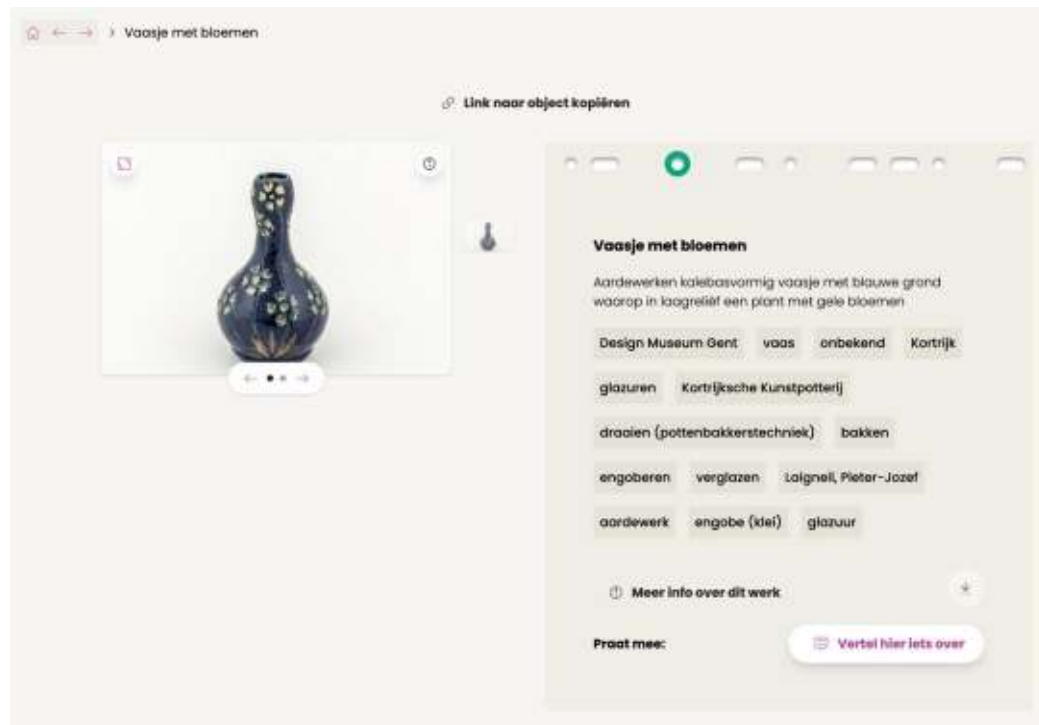
Execution log:

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2F>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2F>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2F>

Requesting <http://proxy.linkeddatafragments.org/https://lodi.ilabt.imec.be/sparql/gent?predicate=http%3A%2F%2F>



?dams <https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211>

?q <https://stad.gent/id/agent/530021566>

?title "Vaasje met bloemen"@nl

?subtype <http://vocab.getty.edu/aat/300132254>

?object <https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-02-25T17:12:03.599Z>

```

{
  "@context": "https://api.collectie.gent/iiif/presentation/v2/context.json",
  "@id": "https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211",
  "@type": "sc:Manifest",
  "label": "Vaasje met bloemen",
  "@value": "nl",
  "description": "Aardewerken kalebasvormig vaasje met blauwe grond waarop in laagrelief een plant met gele bloemen",
  "rendering": {
    "@id": "https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-04-26T00:28:22.791Z"
  },
  "sequences": {
    "@": {
      "@type": "sc:Sequence",
      "canvases": {
        "@": {
          "@id": "https://api.collectie.gent/iiif/presentation/v2/canvas/89187ed7d1686583a9639491199556a5-transcode-1987-1211$1.jpg.json",
          "@type": "sc:Canvas",
          "label": "89187ed7d1686583a9639491199556a5-transcode-1987-1211$1.jpg",
          "height": 2384,
          "width": 3456,
          "images": {
            "@": {
              "@type": "oa:Annotation",
              "attribution": "photographer: Foto Design Museum Gent, source: Design Museum Gent",
              "license": "https://creativecommons.org/publicdomain/zero/1.0/",
              "motivation": "sc:painting",
              "resource": {
                "@id": "https://api.collectie.gent/full/full/0/default.jpg",
                "@type": "dctypes:Image",
                "format": "image/jpeg",
                "height": 2384,
                "width": 3456,
                "service": {}
              }
            }
          }
        }
      }
    }
  }
}

```

?dams <https://api.collectie.gent/iiif/presentation/v2/manifest/dmg:1987-1211>

?q <https://stad.gent/id/agent/530021566>

?title "Vaasje met bloemen"@nl

?subtype <http://vocab.getty.edu/aat/300132254>

?object <https://stad.gent/id/mensgemaaktobject/dmg/530007905/2022-02-25T17:12:03.599Z>

Vaasje versierd met bloemen en ranken en opschrift “La Soldanelle des Alpes” en “l'éternel printemps couve sous l'hiver”



Objectnummer	AV.1938.014.073
Afdeling	Collectie Vleeshuis
Titel	Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'
Vervaardiger	Galli
Vervaardiging plaats	Nancy [plaats]
Datum	1875 - 1884
Objectnaam	

?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"@nl-nl

?object <https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.073>

?subtype <http://vocab.getty.edu/aat/300132254>

?dams <https://dams.antwerpen.be/zoeken?search=AV.1938.014.073>

Vaasje versierd met bloemen en ranken en opschrift “La Soldanelle des Alpes” en “l'éternel printemps couve sous l'hiver”

```
sequences:
  - 0:
    @id: "https://media.antwerpen.be/media/111/nivskx3d8XTJdQkVtE1qLMP/sequence/nprw1"
    @type: "sc:Sequence"
    rendering:
      - 0:
        label: "DIG17840.tif"
        @id: "https://s3-ant1.antwerpen.be/prod-digitalassets-dams/0/0UwZXXtqI9SWJ/FFUAWNHFC/DIG17840.tif"
        format: "image/tiff"
        viewingDirection: "left-to-right"
        viewingHint: "paged"
    canvases:
      - 0:
        @id: "https://media.antwerpen.be/media/111/nivskx3d8XTJdQkVtE1qLMP/canvas/normal"
        @type: "sc:Canvas"
        label: "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"
        thumbnails:
          - 0:
            @id: "https://media.antwerpen.be/media/18/t/tXKRDH(TheMkwaIPcF817F/tXKRDH(TheMkwaIPcF817F.jpg"
            @type: "image/jpeg"
            rendering:
              - 0:
                label: "DIG17840.tif"
                @id: "https://s3-ant1.antwerpen.be/prod-digitalassets-dams/0/0UwZXXtqI9SWJ/FFUAWNHFC/DIG17840.tif"
                format: "image/tiff"
                height: 5970
                width: 5191
                isopci:
                  - 0:
```

?title "Vaasje versierd met bloemen en ranken en opschrift 'La Soldanelle des Alpes' en 'l'éternel printemps couve sous l'hiver'"@nl-nl

?object https://data.antwerp.be/id/mensgemaaktobject/AV.1938.014.073

?subtype http://vocab.getty.edu/aat/300132254

?dams https://dams.antwerpen.be/zoeken?search=AV.1938.014.073

Touchpoints

- Use of Flemish URI standards
- Use of OSLO models
- 5-stars Linked Open Data (AAT, Wikidata...)
- Connected and linked heritage municipal data
- Use of the same patrons within modelling (Gitbook)
- Data cleaning and control based on CEST invulboek voor registratiesystemen
→ re-usable mapping

Results

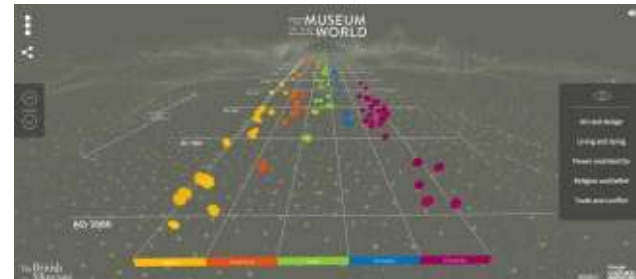
- GLAM: breaking the borders between silo's
- Connections between the heritage collections of different cities

Lessons Learned

- Cleaning of metadata should run parallel with setting up your architecture
- Enriching metadata through LOD (authorities) (cfr termennetwerk NL) should also be a focus point
- Think (hard) before you start, especially on the different parts of the architectural setup
- Engage and convince your (board of) directors by focussing on long term advantages
- Communicate 'upstairs' and 'downstairs', with appropriate messages
- Corona set everybody on the same path: heritage collections worldwide are all working towards LOD: so invest in networking and exchanging knowledge

And now onwards...

- Antwerp and CoGhent (and meemoo) compare and adjust existent OSLO mappings (gitbook/github/doxify)
- Development and broadening of OSLO mapping (eg intangible, art history, industrial, sciences, ...): Vlaamse Overheid
- Apps and websites as a POC



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